



# **Clinical Reminders**

## **INSTALLATION GUIDE**

**Version 1.5**

**June 2000**

Clinical Desktop Services  
Office of Information  
Department of Veterans Affairs



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# Introduction

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## **Purpose of Installation Guide**

This Installation Guide describes how to prepare for and install Clinical Reminders V. 1.5.

This installation separates Clinical Reminders from Patient Care Encounter (PCE) and creates a new package called Clinical Reminders. The new package adds additional functionality, which includes:

- More flexible and powerful reminder definitions
- Additional findings types
- Interactive reminders resolution processing through the CPRS GUI
- Structure changes to the reminder definition. The installation process will automatically convert a site's existing reminder definitions to the new structure.

## **Related Manuals**

Clinical Reminders V. 1.5 Clinician Guide

Clinical Reminders V. 1.5 Manager Manual

Clinical Reminders V. 1.5 Quick Reference Guide

## **Web Site**

<http://www.vista.med.va.gov/reminders>

# Pre-Installation

---

## 1. Clean up PCE cross-references.

The PCE cleanup utility repairs erroneous cross-references in PCE's Visit and V-files. The new reminder evaluation will send an ERROR message to a specified mailgroup if the reminder could not be evaluated because of bad cross-references in PCE's files.

We recommend that you run the cleanup routine prior to the installation of Clinical Reminders V. 1.5 to reduce the frustration of getting the ERROR messages and the necessity of cleaning up the data manually. Reminders with erroneous data are not able to complete the evaluation process to determine if the reminder was due or not due.

It isn't mandatory to clean up the cross-references before installing Clinical Reminders. However, if error messages start appearing from reminders, we recommend that you complete the cleanup as soon as possible.

Run the ^PXQ routine (the PCE cleanup utility) from programmer mode. This may take several hours or a few days depending on the number of visits at your facility. We recommend that you run this over a weekend.

```
>D ^PXQ
  Select one of the following:
    D      Dependent Entry Count
    EX     Expanded D.E.C.
    I      Internal View of Visits
    S      Source
    V      Visit Ien
    E      Encounter Ien
    P      Parameter Setups
    M      Maximum Global Lengths
    PA     Patient/IHS & Location files
    U      User's Visit Review
    C      Cross-references repair
OPTION:  C

          NOTES CONCERNING THIS OPTION
  These options will check for broken cross-references in all of
    the PCE visit files. It is interactive.
'S' will go through ONLY the 'B' X-REF of each file looking for problems.
  To EXIT the program, you can enter an '^' at any prompt.
  At about 1 minute intervals a message will come up telling you
    how much work has already been done.
  Select one of the following:
    S      Screen of 4 'MAIN' files
    P      Provider V PROVIDER FILE
    D      Diagnosis V POV FILE
    C      CPT V CPT FILE
    V      Visit VISIT FILE
    O      Other 6 V Files
    R      Repair 4 'MAIN' V Files without prompts
    F      Fix ALL files without prompting (automatic)
Which file do you need to fix : P// F
```

## 2. Modify local reminders with computed findings in their definition, if necessary.

Use the FileMan Print option to print out reminders that contain computed findings. Below is an example of using the print option to list computed findings and reminders that use them.

```
Select OPTION: 2  PRINT FILE ENTRIES

OUTPUT FROM WHAT FILE: PCE REMINDER/MAINTENANCE ITEM
                        (56 entries)
SORT BY: NAME//  COMPUTED FINDINGS      (multiple)
COMPUTED FINDINGS SUB-FIELD: .01  ROUTINE
START WITH ROUTINE: FIRST// <Enter>
  WITHIN ROUTINE, SORT BY: <Enter>
FIRST PRINT FIELD: NAME
THEN PRINT FIELD:  COMPUTED FINDINGS      (multiple)
  THEN PRINT COMPUTED FINDINGS SUB-FIELD: .01  ROUTINE
  THEN PRINT COMPUTED FINDINGS SUB-FIELD: <Enter>
THEN PRINT FIELD: <Enter>
Heading (S/C): PCE REMINDER/MAINTENANCE ITEM LIST  Replace <Enter>
DEVICE: ;;99999  ANYWHERE      Right Margin: 80// <Enter>

...EXCUSE ME, LET ME PUT YOU ON 'HOLD' FOR A SECOND...

PCE REMINDER/MAINTENANCE ITEM LIST          MAR 28,2000  14:24    PAGE 1
NAME                                         ROUTINE
-----
VA-NUTRITION/OBESITY EDUCATION             OBESE;PXRMOBES
NUTRITION/OBESITY EDUCATION                 OBESE;PXRMOBES
```

### a. Check for entries other than OBESE;PXRMOBES.

If there are any routines listed besides the OBESE;PXRMOBES, some programming modifications must be done for these routines in order to continue to use the computed finding routine after the installation. During the installation, a new file is created called Reminder Computed Findings. This file contains the computed finding routine and its entry point. The post-installation conversion process automatically moves your reminder computed finding routines into the new REMINDER COMPUTED FINDINGS file as a conversion step, and changes the reminder definition to point to the new computed finding. This change in file design allows computed findings to be treated like any other file of findings that reminders use.

NOTE: Any reminders with the OBESE;PXRMOBES routine will be converted to use the VA-BMI entry distributed in the new “Reminder Computed Findings” file.

## Computed Findings, cont'd

### b. Create new entry points in the routines that will be used AFTER the installation.

Use the following rules to create a new entry point in your local routine that can be added to the Reminder Computed Findings file (811.4) after the installation is completed.

The routine should use the following parameters:

(DFN,TEST,DATE,VALUE,TEXT).

*Input:* DFN contains the patient internal entry number and will already be defined when the computed finding routine is called. Make sure that you "NEW" all variables used in your routine.

*Output:* The following variables should be set by the computed finding routine:

TEST is the logical true/false value of the FINDING represented by this routine. The logic should set TEST to 1 for true and 0 for false.

DATE is the date of the finding in FileMan format (2990115). Use today if a date does not apply.

VALUE (optional) is a value from the computed finding that could be used by the condition field in the reminder definition.

TEXT (optional) is text to be displayed in the Clinical Maintenance output.

### Example routine:

```
PXRMBMI ; SLC/PKR - This is an example of a computed finding. ;04/05/2000
; ;1.5;CLINICAL REMINDERS;;May 12, 2000
;
;=====
BMI(DFN,TEST,DATE,VALUE,TEXT) ;Computed finding to return the BMI.
N BMI,DATA,HDATE,GMRVSTR,IEN,INVDATE,WDATA,WDATE
;Get the height and weight.
S GMRVSTR="HT;WT;"
S GMRVSTR(0)=U_U_1_U_0
K ^UTILITY($J,"GMRVD")
D EN1^GMRVUT0
;Find the latest entry for height.
I $D(^UTILITY($J,"GMRVD","HT")) D
. S INVDATE=$O(^UTILITY($J,"GMRVD","HT",""))
. S HDATE=$$FMDFINVL^PXRMDATE(INVDATE,0)
E D
. S HDATE=0
I $D(^UTILITY($J,"GMRVD","WT")) D
. S INVDATE=$O(^UTILITY($J,"GMRVD","WT",""))
. S WDATE=$$FMDFINVL^PXRMDATE(INVDATE,0)
. S IEN=$O(^UTILITY($J,"GMRVD","WT",INVDATE,""))
. S WDATA=$G(^UTILITY($J,"GMRVD","WT",INVDATE,IEN))
E D
. S WDATE=0
. S WDATA=""
;Use the oldest date of the two.
S DATE=$$MIN^XLFMTH(HDATE,WDATE)
S BMI=$P(WDATA,U,14)
S TEST=1
I BMI="" S VALUE="?"
E S VALUE=BMI
K ^UTILITY($J,"GMRVD")
Q
;
```



### 3. Install required and recommended software

Recommended\* = Not required prior to installation of Clinical Reminders V. 1.5, but required to support a package's interaction with reminders after the Reminders package is installed.

Package/Patch	Name-space	Min. Version	Required or Recommended	Comments
Automated Information Collection System (AICS)	IBDF	2.1	Recommended	May be needed to compare encounter form definitions to reminder dialog definitions.
Health Summary	GMTS	2.7	Required	Fully patched
GMTS*2.7*34 (requires Clinical Reminders V.1.5)			Recommended*	Required to display the new formats of reminder component data in Health Summaries
Kernel	XU	8.0	Required	Fully patched
XU*8.0*120			Required	Required for correct date calculations used by reminders
Mental Health	YS	5.01	Required	Fully patched
YS*5.01*53			Recommended*	Required in order to use mental health instruments as findings
YS*5.01*62			Recommended*	Required to support GUI resolution of Mental Health tests
YS*5.01*64			Recommended*	Required in order to save GAF and other mental health test scores
Order Entry/Results Reporting (OE/RR)	OR	3.0	Required	Fully patched
OR*3.0*10 (latest v14 and associated executable)			Recommended*	Required in order to use GUI reminder resolution
OR*3.0*48			Required	Required in order to use orderable items as findings
Outpatient Pharmacy	PSO	7.0	Required	Fully patched
Patient Information Management System (PIMS)	DG/SD	5.3	Required	Fully patched
Patient Care Encounter (PCE)	PX	1.0	Required	Fully patched
Pharmacy Data Management (PDM)	PSS	1.0	Recommended*	Fully patched
PSS*1.0*31			Recommended*	Required in order to use generic drug findings in reminders
Problem List	GMPL	2.0	Required	Fully patched
GMPL*2.0*19			Required	Required in order to use acute or chronic condition for a problem in the reminder
GMPL*2.0*23			Required	Required to ensure the most recent problem list data is used in reminder evaluation
Radiology/Nuclear Medicine	RA	5.0	Required	Fully patched
Text Integration Utilities	TIU	1.0	Required	Fully patched
TIU*1.0*47			Required	Required in order to use TIU Objects in reminder definition Found/Not Found text

### ***Required or Recommended Packages, cont'd***

<b>Package/Patch</b>	<b>Name-space</b>	<b>Min. Version</b>	<b>Required or Recommended</b>	<b>Comments</b>
VA FileMan	DI	22	Required	Fully patched
DI*22*31			Required	Required for new format cross-reference management used in reminders
Vitals	GMRV	4.0	Required	Fully patched

#### **4. Plan the best time to install.**

Before installing Clinical Reminders v. 1.5, you will need to disable the CPRS GUI, Encounter Forms, and Health Summary, so make any necessary preparations in advance. You will be prompted to disable options and protocols during the installation.

#### **5. Familiarize yourself with what is installed by Clinical Reminders v. 1.5.**

- **Namespace: PXRMD is reserved for the Clinical Reminders package.**
- **Reminder Definition file (#811.9) changes:** See Appendix A for a list of the changes to the REMINDER DEFINITION file. When the package installation occurs, all local reminders are converted. The old fields will still be defined and populated, but the new fields will now be used for reminder evaluation. The old fields will be deleted in a future patch.
- **Files installed by Clinical Reminders**  
Clinical Reminders distributes one new global, PXRMD. Place, set protection (RWP or RWD, depending on your operating system), and journal, as appropriate (see your system manager).

<b>File Name</b>	<b>File #</b>	<b>Global</b>	<b>Data</b>
CLINICAL REMINDER PARAMETERS	800	PXRM(800,	YES
REMINDER DIALOG	801.41	PXRMD(801.41,	YES
REMINDER GUI PROCESS	801.42	PXRMD(801.42,	YES
REMINDER FINDING ITEM PARAMETER	801.43	PXRMD(801.43,	NO
REMINDER FINDING TYPE PARAMETER	801.45	PXRMD(801.45,	YES
REMINDER RESOLUTION STATUS	801.9	PXRMD(801.9,	YES
HEALTH FACTOR RESOLUTION	801.95	PXRMD(801.95,	NO
REMINDER REPORT TEMPLATE	810.1	PXRMD(810.1,	NO
REMINDER TAXONOMY	811.2	PXD(811.2,	YES
EXPANDED TAXONOMIES	811.3	PXD(811.3,	NO
REMINDER COMPUTED FINDINGS	811.4	PXRMD(811.4,	YES
REMINDER TERM	811.5	PXRMD(811.5,	YES
REMINDER TERM SPONSOR	811.6	PXRMD(811.6,	YES
REMINDER CATEGORY	811.7	PXRMD(811.7,	NO
REMINDER DEFINITION	811.9	PXD(811.9,	YES
PARAMETER DEFINITION	8989.51	XTV(8989.51,	YES
HEALTH FACTORS	9999999.64	AUTHF(	YES

- **Routines Installed**

PXRM	PXRMAGE	PXRMBMI	PXRMEXTL	PXRMCAT	PXRMCF	PXRMCFED	PXRMCLST
PXRMCODE	PXRMCOPY	PXRMDATE	PXRMDBL1	PXRMDBL2	PXRMDBL3	PXRMDBLD	PXRMDCPY
PXRMD41	PXRMDDET	PXRMDDEV	PXRMDGEN	PXRMDGOP	PXRMDGPT	PXRMDHLP	PXRMDISC
PXRMDLG	PXRMDLG1	PXRMDLG2	PXRMDLGH	PXRMDLGZ	PXRMDLL	PXRMDLLA	PXRMDLR
PXRMDLST	PXRMDP1	PXRMDRCL	PXRMDRUG	PXRMDIT	PXRMEDU	PXRMEERRH	PXRMEVFI
PXRMEEX	PXRMEEXAM	PXRMEEXCF	PXRMEEXCS	PXRMEEXFI	PXRMEEXHF	PXRMEEXIR	PXRMEEXIS
PXRMEIXU	PXRMEEXLC	PXRMEEXMH	PXRMEEXMM	PXRMEEXMR	PXRMEEXPR	PXRMEEXPU	PXRMEEXSR
PXRMFIND	PXRMFIP	PXRMFLLST	PXRMFOUT	PXRMFPAR	PXRMGEDT	PXRMGGEN	PXRMGPRT
PXRMHF	PXRMH7	PXRMICD9	PXRIMMM	PXRMINQ	PXRMINTR	PXRMLAB	PXRMLFNF
PXRMLIST	PXRMLLOG	PXRMLLOGX	PXRMEAS	PXRMMH	PXRMOPT	PXRMMORDR	PXRMPCCIN
PXRMPDEM	PXRMPINF	PXRMPROB	PXRMPPT	PXRMPPTL	PXRMRAD	PXRMRCPPT	PXRMRDEF
PXRMRDET	PXRMRRESN	PXRMRIN2	PXRMRIN3	PXRMRLLST	PXRMRPCA	PXRMRPCB	PXRMRPCC
PXRMRUTL	PXRMSAPG	PXRMSDET	PXRMSSEL	PXRMSSEL1	PXRMSSEL2	PXRMSHF	PXRMSKIN
PXRMSLST	PXRMTAX	PXRMTDLG	PXRMTEDT	PXRMTTERM	PXRMTMED	PXRMTUNIQ	PXRMTUL
PXRMV1I	PXRMV1IA	PXRMV1ID	PXRMV1IE	PXRMV1IG	PXRMVVAL	PXRMVVALC	PXRMVVALU
PXRMCVPT	PXRMCVPOV	PXRMCVPTTR	PXRMCVSIT	PXRMCVX	PXRMCVX01	PXRMCXAP	PXRMCXBSY
PXRMXD	PXRMXDUT	PXRMXGPR	PXRMXGUT	PXRMXPR	PXRMXQUE	PXRMXSC	PXRMXSD
PXRMXSE	PXRMXSEL	PXRMXSEO	PXRMXSU	PXRMXXT	PXRMXTA	PXRMXTD	PXRMXTF
PXRMXTU	PXRMXX						

Routines no longer needed for Clinical Reminders V. 1.5 are deleted as part of the installation process.

- **Estimated Installation Time**

Clinical Reminders V. 1.5 takes approximately 15 minutes to install. The interactive or non-interactive XQBUILDTREE option should be run after the install is completed to rebuild the menu the menu tree.

# Installation Instructions

---

## 1. Retrieve the Clinical Reminders V. 1.5 build

The Clinical Reminders V. 1.5 (PXRМ\_1\_5.KID;1 build can be retrieved from the following locations:

SITE	IP ADDRESS	DIRECTORY
Albany	152.127.1.5	[ANONYMOUS.SOFTWARE]
Hines	152.129.1.110	[ANONYMOUS.SOFTWARE]
Salt Lake City	152.131.2.1	[ANONYMOUS.SOFTWARE]

## 2. Install Clinical Reminders first in a training or test account.

Installing Clinical Reminders in a non-production environment will give you time to get familiar with new functionality and train users prior to installing the software in production. When installing in production, the new evaluation logic will be used immediately by applications that currently use reminders (Health Summaries, CPRS, Encounter Forms). Additional package features, such as point-and-click reminder resolution in the CPRS GUI can be incrementally introduced to users with CPRS parameters for reminders.

## 3. Load the distribution.

Do ^XUP and select the Kernel Installation & Distribution System. Select the Installation menu option, then select the option, Load a Distribution. At the prompt "Enter a Host File:" enter your directory name and the filename PXRМ\_1\_5.KID.

```
>D ^XUP
Setting up programmer environment
Access Code:
Terminal Type set to: C-VT100

Select OPTION NAME: KERNEL INSTALLATION & DISTRIBUTION  XPD MAIN   Kernel
Installation & Distribution System

    Edits and Distribution ...
    Utilities ...
    Installation ...

Select Installation & Distribution System Option: Installation

Select Installation Option: Load a Distribution
Enter a Host File: (directory name)PXRМ_1_5.KID
```

#### 4. Verify Checksums in the transport global.

Run the option Verify Checksums in Transport Global to verify that all routines have the correct checksum. If there are any discrepancies, do not run the Install Package(s) option. Instead, run the Unload a Distribution option to remove the Transport Global from your system. Retrieve the file again from the anonymous directory (in case there was corruption in FTPing) and Load the Distribution again. If the problem still exists, log a NOIS and/or call the national Help Desk to report the problem.

#### 5. Back up the Transport Global.

#### 6. Unmap any mapped PXRМ\* Routines.

#### 7. Disable journaling on the ^PXD global.

#### 8. Install Package.

From the Installation Menu on the KIDS menu, run the option Install Package(s). Select the package 'Clinical Reminders 1.5' and proceed with the install. If you have problems with the installation, log a NOIS and/or call the national Help Desk to report the problem.

```
Select Installation & Distribution System Option: Installation
  Load a Distribution
  Print Transport Global
  Compare Transport Global to Current System
  Install Package(s)
  Restart Install of Package(s)
  Unload a Distribution
  Backup a Transport Global

Select Installation Option: INSTALL PACKAGE(S)
Select INSTALL NAME: Clinical Reminders 1.5
```

a. When asked if you wish to disable options, disable the following:

GMTS\*  
PXRМ\*  
IBDF PRINT\*  
IBDF PRNT FORM  
OR CPRS GUI CHART  
ORS HEALTH SUMMARY

b. When asked if you wish to disable protocols, disable the following:

ORS AD HOC HEALTH SUMMARY  
ORS HEALTH SUMMARY  
PXRМ PATIENT DATA CHANGE

## Installation Capture Example

```
>D ^XUP

Select Installation Option: INSTALL Package(s)
Select INSTALL NAME: CLINICAL REMINDERS 1.5      Loaded from Distribution  6/1
3/00@15:01:06
    => Clinical Reminders version 1.5, build Jun 12, 2000.   ;Created on Jun 1

This Distribution was loaded on Jun 13, 2000@15:01:06 with header of
    Clinical Reminders version 1.5, build Jun 12, 2000.   ;Created on Jun 12,
2000@10:22:37
    It consisted of the following Install(s):
CLINICAL REMINDERS 1.5
Checking Install for Package CLINICAL REMINDERS 1.5

Install Questions for CLINICAL REMINDERS 1.5

Incoming Files:

    800          CLINICAL REMINDER PARAMETERS  (including data)
Note:  You already have the 'CLINICAL REMINDER PARAMETERS' File.
I will OVERWRITE your data with mine.

    801.41       REMINDER DIALOG  (including data)

    801.42       REMINDER GUI PROCESS  (including data)

    801.43       REMINDER FINDING ITEM PARAMETER

    801.45       REMINDER FINDING TYPE PARAMETER  (including data)

    801.9        REMINDER RESOLUTION STATUS  (including data)

    801.95       HEALTH FACTOR RESOLUTION

    810.1        REMINDER REPORT TEMPLATE
Note:  You already have the 'REMINDER REPORT TEMPLATE' File.

    811.2        REMINDER TAXONOMY  (including data)
*BUT YOU ALREADY HAVE 'PCE TAXONOMY' AS FILE #811.2!
Shall I write over your PCE TAXONOMY File? YES// Y
I will REPLACE your data with mine.

    811.3        EXPANDED TAXONOMIES
Note:  You already have the 'EXPANDED TAXONOMIES' File.

    811.4        REMINDER COMPUTED FINDINGS  (including data)

    811.5        REMINDER TERM  (including data)

    811.6        REMINDER TERM SPONSOR  (including data)
```

### *Installation Example, cont'd*

```
811.7      REMINDER CATEGORY

811.9      REMINDER DEFINITION  (including data)
*BUT YOU ALREADY HAVE 'PCE REMINDER/MAINTENANCE ITEM' AS FILE #811.9!
Shall I write over your PCE REMINDER/MAINTENANCE ITEM File? YES//
I will REPLACE your data with mine.

8989.51    PARAMETER DEFINITION  (including data)
Note:  You already have the 'PARAMETER DEFINITION' File.
I will REPLACE your data with mine.

9999999.64HEALTH FACTORS  (including data)
Note:  You already have the 'HEALTH FACTORS' File.
I will OVERWRITE your data with mine.

Want KIDS to Rebuild Menu Trees Upon Completion of Install? YES// NO

Want KIDS to INHIBIT LOGONs during the install? YES// NO
Want to DISABLE Scheduled Options, Menu Options, and Protocols? YES// <Enter>

Enter options you wish to mark as 'Out Of Order': GMTS*

Enter options you wish to mark as 'Out Of Order': PXRМ*

Enter options you wish to mark as 'Out Of Order': IBDF PRINT*

Enter options you wish to mark as 'Out Of Order': IBDF PRNT FORM*

Enter options you wish to mark as 'Out Of Order': OR CPRS GUI CHART
CPRSCart version 1.0.10.13

Enter options you wish to mark as 'Out Of Order': <Enter>

Enter protocols you wish to mark as 'Out Of Order': PXRМ PATIENT DATA CHANGE
PXRМ PATIENT DATA CHANGE

Enter protocols you wish to mark as 'Out Of Order': <Enter>

Delay Install (Minutes):  (0-60): 0// <Enter>

Enter the Device you want to print the Install messages.
You can queue the install by enter a 'Q' at the device prompt.
Enter a '^' to abort the install.

DEVICE: HOME// <Enter>  HOME

Install Started for CLINICAL REMINDERS 1.5 :
Jun 13, 2000@15:20:03

Build Distribution Date: Jun 12, 2000
```

## *Installation Example, cont'd*

Jun 13, 2000@15:20:14

Running Pre-Install Routine: PRE^PXR MV1I

Checking for duplicate entries in file # 801.41

Checking for duplicate entries in file # 811.9

Installing Data Dictionaries:

Jun 13, 2000@15:20:27

Installing Data: ..

Jun 13, 2000@15:21:12

Installing PACKAGE COMPONENTS:

Installing PRINT TEMPLATE

Installing SORT TEMPLATE

Installing INPUT TEMPLATE

Installing PROTOCOL

Located in the PXR (CLINICAL REMINDERS) namespace.

Located in the PXR (CLINICAL REMINDERS) namespace.

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Located in the PXR (CLINICAL REMINDERS) namespace.



### ***Installation Example, cont'd***

```
Located in the PXR (CLINICAL REMINDERS) namespace.  
Located in the PXR (CLINICAL REMINDERS) namespace.  
Located in the PXR (CLINICAL REMINDERS) namespace.
```

```
Installing LIST TEMPLATE
```

```
Installing OPTION
```

```
Jun 13, 2000@15:21:28
```

```
Running Post-Install Routine: POST^PXRMI
```

```
Saving site disclaimer
```

```
Building Computed Findings file
```

```
Converting findings in reminder PAP SMEAR
```

```
Converting findings in reminder PSA
```

```
Converting findings in reminder CHOLESTEROL SCREEN (M)
```

```
Converting findings in reminder MAMMOGRAM
```

```
Converting findings in reminder MAMMOGRAPHY
```

```
Converting findings in reminder MAMMOGRAMS
```

```
Converting findings in reminder CHEST XRAY
```

```
Converting findings in reminder PPD
```

```
Converting findings in reminder PPD1
```

```
Converting findings in reminder DEPRESSION SCREEN
```

```
Converting findings in reminder SBK DIABETIC FOOT CARE EDUC
```

```
Converting findings in reminder SUPPORT BREAST CANCER SCREEN
```

```
Converting findings in reminder CRITICAL DRUG
```

```
Converting findings in reminder SBK EXERCISE REMINDER
```

```
Converting findings in reminder ACUTE MYOCARDIAL INFARCTION
```

```
Converting findings in reminder WRJ-PNEUMOVAX
```

```
Converting findings in reminder LOCAL INFLUENZA IMMUNIZATION
```

```
Converting findings in reminder NCG TET-DIPHTHERIA IMM
```

```
Converting findings in reminder CPRS HEP C RISK ASSESSMENT
```

### ***Installation Example, cont'd***

```
Converting findings in reminder COLON CANCER SCREENING
Generating selectable codes from taxonomy file
Generation completed
Building logic strings
Rebuilding cross-references in file # 801.41
Rebuilding cross-references in file # 811.2
Rebuilding cross-references in file # 811.4
Rebuilding cross-references in file # 811.5
Rebuilding cross-references in file # 811.6
Rebuilding cross-references in file # 811.7
Rebuilding cross-references in file # 811.9
Checking for duplicate entries in file # 801.41
Checking for duplicate entries in file # 811.9
Updating Routine file...
Updating KIDS files...
CLINICAL REMINDERS 1.5 Installed.
                Jun 13, 2000@15:22:31
Install Message sent #38532
```

#### **9. Build File Print**

Use the KIDS Build File Print option if you would like a complete listing of package components (e.g., routines and options) exported with this software.

#### **10. Install File Print**

Use the KIDS Install File Print option if you'd like to print out the results of the installation process.

#### **11. Map PXRMD routines, if unmapped in a pre-installation step.**

#### **12. Journaling for the globals ^PXD and ^PXRMD is recommended.**

## Post-Installation

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- **Reminders Conversion**

For sites with existing reminders, the conversion to the new reminder definition file structure is done as part of the post-installation processing. This is done automatically and requires no intervention by the site.

If a reminder failed to convert during the post-installation processing, use the routine REDO^PXRMI to convert the reminder. The routine will prompt you for the name of the reminder.

- **Manual Computed Findings Modifications**

If you created new entry points in the computed findings routines as described in the pre-installation steps, you'll need to use the Reminder Computed Findings Management option to replace the old entry points and routines with the new entry points and routines.

- **Set up a Mail Group for Error Handling**

With this release, Clinical Reminders does its own error handling. If there is an error, the error handler sends a MailMan message to the mail group defined in the field, MAIL GROUP FOR ERRORS, in the CLINICAL REMINDERS PARAMETERS FILE (#800). If you want messages sent to this group, use FileMan to create an entry. If there is no entry, the error message will be sent to the user who produced the error. It is highly recommended that a mail group be entered, so clinicians won't receive these error messages. The messages are primarily for technical users to correct data problems. The error will also be in the error trap.

- **Map local findings to the national reminder terms for Hepatitis C**

Use the Reminder Term Management Menu to review and edit the distributed findings mapped to national reminder terms in the new version of the VA-Hep C Risk Assessment reminder released with Clinical Reminders V. 1.5.

The terms are distributed with mappings to the health factors that were distributed with the PX\*1.0\*85, Hep C Risk Assessment patch. Once the mapping is completed to reflect local findings, the VA-Hep C Risk Assessment reminder is ready to use. NOTE: You do not have to copy the reminder to a local reminder if you can successfully map your local findings to the national terms.

You may use a local reminder for day-to-day clinical care; however, mapping local findings to the national reminder terms is vital to successful national roll-up to the Emerging Pathogens Initiative (EPI) database, enabling Congressional Hepatitis C reporting.

- **Recommended Menu Assignment**

<b>Menu</b>	<b>Assignment</b>	<b>Purpose</b>
Clinical Reminders Management Menu [PXRMANAGEMENT MENU]	<ul style="list-style-type: none"> <li>• Clinical Reminders Managers</li> <li>• Clinical Application Coordinators</li> <li>• IRM clinical reminder support staff</li> </ul>	Anyone who needs to define or edit reminders and dialogs. NOTE: Users who were assigned the old reminder management menu will automatically be updated to the new menu.
Other Supporting Menus [PXRMOOTHER SUPPORTING MENUS]	<ul style="list-style-type: none"> <li>• Clinical Reminders Managers</li> <li>• Clinical Application Coordinators</li> <li>• IRM clinical reminder support staff</li> </ul>	This menu contains menus and options from other <b>VISTA</b> packages, to provide easier access to related tools for setting up and maintaining clinical reminders. Use caution in assigning these menus, as they also contain options that should only be used by coordinators of those packages.
Information Only Menu [PXRMINFO]	<ul style="list-style-type: none"> <li>• Clinicians</li> <li>• Quality Assurance personnel</li> </ul>	Anyone who needs to look up (but not define or edit) reminder information

NOTE: The Clinical Reminder Management Menu contains Other Supporting Menus, which contains the Health Summary option GMTS COORDINATOR. When making the Clinical Reminder option assignment, consider the assignment of the GMTS COORDINATOR menu option as a separate issue, leaving it or removing it from the Clinical Reminder menu as desired.

- **Parameters to activate clinical reminders for CPRS**

Use the following options on the CPRS Reminder Configuration menu to activate CPRS GUI parameters related to reminders. You can still use reminders in Health Summary without these parameters activated.

1. **CPRS Cover Sheet Reminder List** (parameter existed prior to this install)  
Use this option to enter reminders that will be displayed on the CPRS cover sheet. You can also specify the sequence in which the reminders will be displayed. Set this for users, location, service, division, system, or package.
2. **CPRS Lookup Categories**  
Use this option to enter reminder categories that will be displayed in the Reminders Available tree list (right-click on reminder button) and the Reminder drawer (on the Notes Tab).
3. **Reminder GUI Resolution Active**  
Use this option to let users process reminders through the CPRS Notes or Consults tabs. This parameter can be set at the user, division, or system level. We recommend that you turn this on for a limited number of users to begin with until reminder dialogs are ready for use by clinicians. Users can't use GUI resolution for a reminder until a reminder dialog is created for the reminder.
4. **Mental Health Dialogs Active**  
Use this option to turn this parameter on for the whole system to enable reminder resolution using mental health dialogs. This will make the appropriate mental health tests available for entering responses in the GUI resolution process. Other access settings include user and division.
5. **Progress Note Headers**  
Use this option to create a special header to distinguish the GUI resolution text generated for progress notes from other progress note text. The default header is "Clinical Reminder Activity." Set this for users, location, service, division, system, or package.

## Appendix A: REMINDER DEFINITION File Changes

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**Obsolete fields:** The following fields will no longer be used with Clinical Reminders V. 1.5. They will be deleted from the REMINDER DEFINITION file (811.9) in the future.

Field #	Field Name	Comments
4	TARGET RESULT FINDINGS (Multiple-811.94)	The target result finding fields will be moved to the new Findings multiple and defined with “use in resolution logic.”
5	TAXONOMY FINDINGS (Multiple-811.95)	The taxonomy finding fields will be moved to the new Findings multiple.
9	APPLY LOGIC	The Apply Logic will be moved to the new Internal Patient Cohort Logic field.
10	COMPUTED FINDINGS (Multiple-811.9001)	The computed findings fields will be used to create entries in the new Reminder Computed Findings file. These new computed finding entries will be added to the new Findings multiple.
11	HEALTH FACTOR FINDINGS (Multiple-811.911)	The health factor findings fields will be moved to the new Findings multiple.

**New Reminder Definition:** The following fields are used to define reminder definitions in the restructured REMINDER DEFINITION file (811.9). Fields with \* are new fields with Clinical Reminders V. 1.5

Field #, Subfield #	Field Name	Comments
.01	NAME	
1.2	PRINT NAME	
1.3	DO IN ADVANCE TIME FRAME	If the reminder is due because of this time frame, the status will be DUE SOON in the Health Summary reminder components.
1.4	RELATED REMINDER GUIDELINE	
1.6	INACTIVE FLAG	
1.7	INACTIVE CHANGE DATE	
1.8	IGNORE ON N/A	
1.9	SEX SPECIFIC	
1.10*	PRIORITY	Sites can assign a high, medium, or low priority to reminders. Priority displays in the Reminders Available List in the GUI.
2	REMINDER DESCRIPTION	
3	TECHNICAL DESCRIPTION	
7	BASELINE AGE FINDINGS	
7,.01	REMINDER FREQUENCY	
7,1	MINIMUM AGE	
7,2	MAXIMUM AGE	
7,3	AGE MATCH TEXT	
7,4	AGE NO MATCH TEXT	

## New Reminder Definition fields (continued)

Field #, Subfield #	Field Name	Comments
20*	FINDINGS	All findings are now defined in one place and can be used as patient cohort, resolution, or information findings. See the Findings table below.
30*	CUSTOMIZED COHORT LOGIC	Use this field to customize the Boolean logic's use of findings to define the patient cohort. This field overrides the INTERNAL PATIENT COHORT LOGIC
31*	INTERNAL PATIENT COHORT LOGIC	This field is derived after editing is completed using findings with USE IN PATIENT COHORT LOGIC values.
34*	CUSTOMIZED RESOLUTION LOGIC	Use this field to customize the Boolean logic's use of findings to define what resolves the reminder. This field overrides the INTERNAL RESOLUTION LOGIC
35*	INTERNAL RESOLUTION LOGIC	This field is derived after editing is completed using findings with USE IN RESOLUTION LOGIC values.
50*	WEB SITES	Define links to web sites that are related to the reminder for access from the CPRS GUI.
51*	LINKED REMINDER DIALOG	This is the reminder dialog that will be used by the GUI Reminder resolution process.
60*	GENERAL COHORT FOUND TEXT	Use this field to define additional text to display if any of the patient cohort findings are found for the patient.
61*	GENERAL COHORT NOT FOUND TEXT	Use this field to define additional text to display if none of the patient cohort findings are found for the patient
65*	GENERAL RESOLUTION FOUND TEXT	Use this field to define additional text to display if any of the resolution findings are found for the patient.
66*	GENERAL RESOLUTION NOT FOUND TEXT	Use this field to define additional text to display if none of the resolution findings are found for the patient.

This new findings multiple will store all of the findings that will be used by the reminder. Target Findings, Taxonomy Findings, Computed Findings, and Health Factor Findings are all moved to this multiple. The findings will be used as Patient Cohort findings, Resolution findings, or Informational findings depending on the USE IN PATIENT COHORT LOGIC, USE IN RESOLUTION LOGIC, and Frequency Age Range Set fields. The finding will be assumed to be informational if none of these fields are defined in the finding items definition.

**New Findings fields:** The fields defined for each finding determine how the finding will be used in the evaluation logic.

Field #, Subfield #	Field Name	Comments
20*	FINDINGS	All findings are now defined in one place and can be used as patient cohort, resolution or information findings.
20,01*	FINDING ITEM	Findings are selected, added, and edited by using a PREFIX.NAME format (e.g., EX.DIABETIC FOOT EXAM). New types of findings are selectable for orders, mental health tests, and medications.
20,1	MINIMUM AGE	Optional. Used to override the Baseline Minimum Age and Frequency when the finding item is found for the patient.
20,2	MAXIMUM AGE	Optional. Used to override the Baseline Maximum Age and Frequency when the finding item is found for the patient.
20,3	REMINDER FREQUENCY	Optional. Used to override the Baseline Age range and Frequency when the finding item is found for the patient.
20,4	FOUND TEXT	Optional. Additional text to display with the patient's data when the finding is found. TIU Objects may now be included.
20,5	NOT FOUND TEXT	Optional. Additional text to display when the findings are not found. TIU Objects may now be included.
20,6	RANK FREQUENCY	Used to rank the frequency age range sets when multiple findings found have different frequency age range sets defined.
20,7*	USE IN RESOLUTION LOGIC	Used to include the finding in the resolution logic. This field is used to derive a Boolean string for the INTERNAL RESOLUTION LOGIC. The old USE IN DATE DUE value is converted and moved to this field.
20,8*	USE IN PATIENT COHORT LOGIC	Used to include the finding in the patient cohort logic. This field is used to derive a Boolean string for the INTERNAL PATIENT COHORT LOGIC. The old APPLY LOGIC is moved to this field.
20,9	EFFECTIVE PERIOD	Used to indicate a period of time the finding will evaluate as found. (e.g., Enter 1Y to limit problems to those updated within past year)
20,10	USE INACTIVE PROBLEMS	Used to include inactive problems as valid findings.
20,11*	WITHIN CATEGORY RANK	Used to rank health factor category findings.
20,12*	CONDITION	Used to further evaluate a finding to determine if the finding should be considered true or false.
20,13*	MH SCALE	Used with mental health test findings to indicate what scale to use. The default is 1.



## Table of Computed Findings

The following computed findings are distributed with this version of Clinical Reminders.

Computed Finding	Description	Entry Point	Routine
VA-BMI	Patient's body mass index	BMI	PXRMBMI
VA-DATE OF BIRTH	Patient's date of birth in FileMan format	DOB	PXRMPDEM
VA-DATE OF DEATH	Patient's date of death in FileMan format. This will have a value only if the patient is deceased.	DOD	PXRMPDEM
VA-PRIMARY CARE PROVIDER	Patient's primary care provider. This is the name field from file #200, the NEW PERSON file. If no primary care provider has been assigned this will be null.	PROVIDER	PXRMPDPCIN
VA-PRIMARY CARE TEAM	Patient's primary care team. This is the name field from file #404.51, the TEAM file. If no primary care team has been assigned this will be null.	TEAM	PXRMPDPCIN
VA-RACE	Patient's race. This will correspond to one of the entries in the name field of file #10, the RACE file. These will be in the form IEN^RACE.	RACE	PXRMPDEM

## Appendix B: CHECKSUMS

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PXRM	value = 3816281	PXRMFOUT	value = 2872675
PXRMAGE	value = 3398678	PXRMFPAR	value = 4537229
PXRMBMI	value = 757992	PXRMGEDT	value = 3304615
PXRMBXTL	value = 3201909	PXRMGEN	value = 1711134
PXRMCAT	value = 3145185	PXRMHF	value = 8880190
PXRMCF	value = 3397035	PXRMHL7	value = 688053
PXRMCFED	value = 543812	PXRMICD9	value = 16059
PXRMCLST	value = 4099231	PXRMIMM	value = 4398662
PXRMCODE	value = 229415	PXRMINQ	value = 1592893
PXRMCOPY	value = 3158512	PXRMINTR	value = 4535329
PXRMDATE	value = 4435925	PXRMLAB	value = 3865324
PXRMDBL1	value = 2612574	PXRMLFNF	value = 1030209
PXRMDBL2	value = 8346960	PXRMLIST	value = 1950511
PXRMDBL3	value = 5125654	PXRMLLOG	value = 6824235
PXRMDBLD	value = 9918885	PXRMLLOGX	value = 3009219
PXRMDCPY	value = 5408718	PXRMMEAS	value = 3614991
PXRMD41	value = 1091179	PXRMMH	value = 5534594
PXRMD EDT	value = 9206221	PXRMOPT	value = 9291744
PXRMD EV	value = 1964890	PXRMORDR	value = 3744577
PXRMD GEN	value = 3699225	PXRMP CIN	value = 224095
PXRMD GPT	value = 10492083	PXRMP DEM	value = 221119
PXRMD HLP	value = 13385107	PXRMP INF	value = 2111744
PXRMD ISC	value = 413253	PXRMP ROB	value = 4254831
PXRMD LG	value = 6508726	PXRMP T	value = 4472285
PXRMD LG1	value = 8128481	PXRMP TL	value = 4286810
PXRMD LG2	value = 3543072	PXRMRAD	value = 5221163
PXRMD LGH	value = 4498235	PXRMR CPT	value = 2466387
PXRMD LGZ	value = 5844728	PXRMR EDF	value = 2453701
PXRMD LL	value = 9778396	PXRMR EDT	value = 3012335
PXRMD LLA	value = 9800444	PXRMR ESN	value = 3810356
PXRMD LR	value = 3850265	PXRMR IN2	value = 7477789
PXRMD LST	value = 3606500	PXRMR IN3	value = 4062919
PXRMD RCL	value = 3842208	PXRMR LST	value = 2961893
PXRMD RUG	value = 5864311	PXRMR PCA	value = 9792377
PXRMD IT	value = 439787	PXRMR PCB	value = 2707472
PXRMD U	value = 3849331	PXRMR PCC	value = 2283217
PXRMD ERRH	value = 3620664	PXRMR UTL	value = 2008056
PXRMD EVFI	value = 1738350	PXRMSAPG	value = 715658
PXRMD EX	value = 734095	PXRMS EDT	value = 1803879
PXRMD EXAM	value = 3831349	PXRMS EL	value = 9370492
PXRMD EXCF	value = 3082347	PXRMS EL1	value = 9777603
PXRMD EXCS	value = 477784	PXRMS EL2	value = 5865282
PXRMD EXFI	value = 4584420	PXRMS HF	value = 2282623
PXRMD EXHF	value = 3042537	PXRMSKIN	value = 4154373
PXRMD EXIR	value = 6378468	PXRMSLST	value = 1381419
PXRMD EXIS	value = 2111120	PXRMTAX	value = 6312205
PXRMD EXIU	value = 6354998	PXRMTDLG	value = 2691148
PXRMD EXLC	value = 4455681	PXRMT EDT	value = 746070
PXRMD EXMH	value = 5211309	PXRMTERM	value = 6249864
PXRMD EXMM	value = 1803589	PXRMTMED	value = 486844
PXRMD EXMR	value = 3095822	PXRMTIL	value = 2780351
PXRMD EXPR	value = 4745120	PXRMV1I	value = 5530187
PXRMD EXPU	value = 3534845	PXRMV1IA	value = 7961867
PXRMD EXSR	value = 4956164	PXRMV1ID	value = 3591902
PXRMD FIND	value = 4720265	PXRMV1IE	value = 1518945
PXRMD FIP	value = 5867400	PXRMV1IG	value = 2452372
PXRMD FLST	value = 1203626	PXRMV1IH	value = 2517295

PXRMV1X	value = 571258
PXRMV1X1	value = 273779
PXRMVAL	value = 4922691
PXRMVALC	value = 21433825
PXRMVALU	value = 8828167
PXRMVCPT	value = 2077093
PXRMVPOV	value = 3475533
PXRMVPTR	value = 218074
PXRMVSIT	value = 1013124
PXRMXAP	value = 2600970
PXRMXBSY	value = 157646
PXRMXD	value = 5503220
PXRMXDUT	value = 6472172
PXRMXGPR	value = 7899667
PXRMXGUT	value = 976261
PXRMXPR	value = 5961989
PXRMXQUE	value = 333524
PXRMXSC	value = 1942520
PXRMXSD	value = 9517688
PXRMXSE	value = 1617294
PXRMXSEL	value = 8210856
PXRMXSEO	value = 9499648
PXRMXSU	value = 7721520
PXRMXT	value = 5125878
PXRMXTA	value = 5468935
PXRMXTD	value = 3177352
PXRMXTF	value = 4413726
PXRMXTU	value = 4782687
PXRMXX	value = 2465756

## Appendix C: Resolved NOIS

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NYH-0500-11855	MISSING CATEGORY FOR A HEALTH FACTOR
ISH-0500-40663	LAST SCREEN/FIRST SCREEN
CTX-0300-72742	Question regarding reminder due report
MAR-0200-21314	UNDEF IN GMTSLRSE
HOU-1299-71276	PCE caching causing problems with inconsistent data
SUX-1099-41017	REMINDER LOGIC FOR DATE DUE
BRX-0999-12963	XTMP(PXRMDFNXXXX,VCPT UNDEF NODE
SPO-0999-52215	<undef>VCPT+18
CHY-0999-51434	Can't get code to satisfy reminder
BAC-0999-41346	TEST PLEASE
WAS-0999-20003	UNDEF PROCLIST RADPT+23
TAM-0899-32009	ERROR RELATED TO CLINICAL REMINDER
JAC-0899-71546	Taskman Performance
JAC-0799-71759	ERROR MSG UNDEFINED VARIABLE PXRMHF
HOU-0699-71458	CLINICAL Reminder lab type erroneously process non-lab data
BAC-0499-41521	LAB TESTS AND CLINICAL REMINDERS
OKL-0499-71166	Diabetic Foot Care Education Reminder question